

REMARKS/ARGUMENTS

Claims 1-55 have been cancelled without prejudice. No claims have been amended, or added.

35 U.S.C. § 102(e) Rejections

Examiner rejected claims 56-114 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent 6,141,567 (hereinafter "Youssefmir"). The Applicants respectfully disagree and submit the following argument in defense of their position.

Claim 56 requires "determining signature data of one or more interferers, and modifying the antenna processing strategy to realize an improved null toward at least one interferer by incorporating the determined signature data of the one or more interferers with the received signal data to reduce one or both of antenna transmit signal strength in, and sensitivity of the antenna to signals from, one or more interferers." (underline added for emphasis) The Examiner, in response to Applicant's arguments filed on 6/27/05, states that "Youssefmir et al. disclose such determining of signatures (col. 6/ln. 43-56, col. 25/ln. 35 – col. 26/ln. 21).

After a review of the cited passage, the Applicant maintains that, as discussed below, Youssefmir does not teach expressly determining signatures for interferers and using them to place nulls or mitigate interference by determining weights using interferer signatures. Youssefmir discusses the interferer spatial signature only when illustrating the benefits of an embodiment of the invention using an example referring to Figures 19 and 20. A simulated interferer signal is

described. See Col 25 Lines 35-50. It does not teach expressly determining the interferer spatial signatures and using them to place nulls or mitigate interference by determining weights using interferer signatures.

To review the differences between Youssefmir and claim 56, Youssefmir first discloses the conventional weight computation strategy with reference to Figure 3 or Youssefmir. The conventional method, also described with reference to Figure 5 of the present Application, calculates weights based on the received signal and a reference signal.

Youssefmir further discloses an improvement on the conventional method, for example with reference to Figures 6 and 7 of Youssefmir. This improvement involves using two different segments of the received signal (one with interference and one without), referred to as primary and secondary data, that can be combined and correlated with the reference signal to produce the weights. This is described in detail in Col 17 Line 48 - Col 18 Line 10 of Youssefmir.

In contrast, claim 56 requires “determining signature data of one or more interferers, and modifying the antenna processing strategy to realize an improved null toward at least one interferer by incorporating the determined signature data of the one or more interferers with the received signal data to reduce one or both of antenna transmit signal strength in, and sensitivity of the antenna to signals from, one or more interferers.” (underline added for emphasis) This is shown in, and described with reference to, e.g., Figure 6 of the present Application.

As discussed above, Yousseffmir does not teach expressly determining signatures for interferers and using them to place nulls or mitigate interference by determining weights using interferer signatures. Yousseffmir only teaches combining signal segments with and without interference to determine weights.

Interfere signatures are not expressly calculated and used to place nulls in the description provided in Youseffmir.

Therefore, claim 56 is allowable over the cited art. Independent claims 80 and 104 have limitations similar to those of allowable claim 56 and are thus also allowable over the cited art. All other claims depend on allowable independent claims and add further limitations, and are thus also allowable over the prior art. Therefore, the claims remaining in the Application should now be allowed.

CONCLUSION

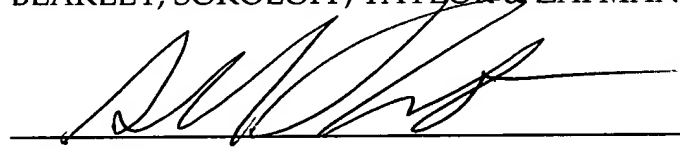
Applicants respectfully submit the present application is in condition for allowance. If the Examiner believes a telephone conference would expedite or assist in the allowance of the present application, the Examiner is invited to call Adam Furst at (408) 947-8200.

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN

Date: 12/9/05

A handwritten signature in black ink, appearing to read 'Adam Furst', is written over a horizontal line.

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